

5

Notice of Allowability

Application No.

10/790,823

Examiner

(Nancy) Thanh-Nhan P. Nguyen

Applicant(s)

YOSHIDA, HISASHI

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/18/2006.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


 David Nelms
 Supervisory Patent Examiner
 Technology Center 2800

EXAMINER'S AMENDMENT

This communication is responsive to Amendment dated 4/18/2006.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Since the title of the invention is not descriptive, a new title is required that is clearly indicative of the invention to which the claims are directed.

The title has been changed to: "Color filter forming region of first side entirely corresponds to color filter non-forming region of second side, and color filter non-forming region of first side entirely corresponds to color filter forming region of second side."

Drawings

The drawings were received on April 18, 2006. These drawings are acceptable.

Allowable Subject Matter

Upon allowing generic claim 1, restriction/election requirement dated 6/14/2005 has been withdrawn. Therefore, non-elected claims 9, 10, 12, 13 and 15-17 have been re-joined. Accordingly, claims 1-22 are pending for the examination, and claims 1-22 are allowed.

Reasons for Allowance

Claims 1-22 are allowed since there is no prior art of record that teaches or suggests a liquid crystal display device comprising a relationship of various elements as claimed with the specific allowable subject matter cited in the following claims:

Claims 1, 18 and 19:

A color filter:

- at least one color filter forming region and at least one color filter non-forming region are formed within a lighting region in each of the pixel
- a first side of the lighting region includes both of the color filter forming region and the color filter non-forming region
- a second side of the lighting region which faces the first side in an opposed manner includes both of the color filter forming region and the color filter non-forming region
- wherein color filter forming region of first side entirely corresponds to color filter non-forming region of second side, and color filter non-forming region of first side entirely corresponds to color filter forming region of second side

Claim 2:

A color filter:

- a color filter forming region and a color filter non-forming region are formed within a lighting region
- a first side of the lighting region includes both of the color filter forming region and the color filter non-forming region

- a second side of the lighting region which faces the first side in an opposed manner includes both of the color filter forming region and the color filter non-forming region
- the color filter non-forming region of the first side faces the color filter forming region of the second side in an opposed manner
- the color filter non-forming region of the second side faces the color filter forming region of the first side in an opposed manner
- wherein each of the color filters has a shape which intersect the first side and the second side obliquely at portions where the color filter forming region and the color filter non-forming region are changed over

Claims 3-17 and 20-22 are allowed since they depend on the allowed claim 1.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Narutaki et al (US 6,624,860) discloses a color filter includes a first region and a second region, wherein the number of times that light used for display is transmitted through the color filter layer is different between the first region and the second region.

Iijima et al (US 2006/0103794) discloses a color filter has non-forming color filter region corresponds to reflective region in transfective display device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Art Unit: 2871

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."[¶]

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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TN


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